

# DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

Attorney Docket No. 5800-62

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

2786, A NOVEL HUMAN AMINOPEPTIDASE ,

**COPY**

the specification of which

☐ is attached hereto

OR

☒ was filed on November 19, 1999 as United States Application No. 09/443,795.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37 Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below any foreign application for patent or inventor's certificate, or of any PCT International application having a filing date before that of the application on which priority is claimed.

			<input type="checkbox"/> Yes <input type="checkbox"/> No
Number	Country	MM/DD/YYYY Filed	Priority Claimed
			<input type="checkbox"/> Yes <input type="checkbox"/> No
Number	Country	MM/DD/YYYY Filed	Priority Claimed

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below.

Application Number	Filing Date (MM/DD/YYYY)
Application Number	Filing Date (MM/DD/YYYY)

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) or § 365(c) of any PCT international application designating the United States of

America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application (37 C.F.R. § 1.63(d)).

Application No.	Filing Date	Status Patented/Pending/Abandoned
Application No.	Filing Date	Status Patented/Pending/Abandoned

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**POWER OF ATTORNEY:** As a named inventor, I hereby appoint the following practitioners:

Mark Boshar, Reg. No. 35,456  
 Scott A. Brown, Reg. No. 32,724  
 Theodore Allen, Reg. No. 41,578  
 Jean M. Silveri, Reg. No. 39,030  
 Cynthia Kanik, Reg. No. 37,320

and, I also appoint the practitioners associated with the Customer Number provided below to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and direct that all correspondence be addressed to that Customer Number:

**Customer Number 826**

Direct correspondence to the  
 attention of and telephone calls to:

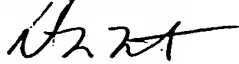
Anne Brown  
 Registration No. 36,463  
 Tel Raleigh Office (919) 420-2200  
 Fax Raleigh Office (919) 420-2260

Full name of (first/sole) inventor: Rosana Kapeller-Libermann  
Inventor's  
Signature: Rosana Kapeller-Libermann Date: 2/17/00  
Residence: 86 Beacon Street, Chestnut Hill, MA 02467, USA  
Citizenship: Brazil  
Post Office Address: (Same as above)

Full name of second inventor: David White  
Inventor's  
Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 35 Hollingsworth Avenue, Braintree, MA 02148  
Citizenship: United States of America  
Post Office Address: (Same as above)

Full name of third inventor: Kyle J. MacBeth  
Inventor's  
Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 688 Tremont Street, #4, Boston, MA 02118, USA  
Citizenship: United States of America  
Post Office Address: (Same as above)

Full name of (first/sole) inventor: Rosana Kapeller-Libermann  
Inventor's  
Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 86 Beacon Street, Chestnut Hill, MA 02467, USA  
Citizenship: Brazil  
Post Office Address: (Same as above)

Full name of second inventor: David White  
Inventor's  
Signature:  Date: 2/22/00  
Residence: 35 Hollingsworth Avenue, Braintree, MA 02148  
Citizenship: United States of America  
Post Office Address: (Same as above)

Full name of third inventor: Kyle J. MacBeth  
Inventor's  
Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 688 Tremont Street, #4, Boston, MA 02118, USA  
Citizenship: United States of America  
Post Office Address: (Same as above)

Full name of (first/sole) inventor: Rosana Kapeller-Libermann  
Inventor's  
Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 86 Beacon Street, Chestnut Hill, MA 02467, USA  
Citizenship: Brazil  
Post Office Address: (Same as above)

Full name of second inventor: David White  
Inventor's  
Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 35 Hollingsworth Avenue, Braintree, MA 02148  
Citizenship: United States of America  
Post Office Address: (Same as above)

Full name of third inventor: Kyle J. MacBeth  
Inventor's  
Signature: Kyle J. MacBeth Date: 3/1/2000  
Residence: 688 Tremont Street, #4, Boston, MA 02118, USA  
Citizenship: United States of America  
Post Office Address: (Same as above)


**BEFORE THE OFFICE OF ENROLLMENT AND DISCIPLINE  
UNITED STATE PATENT AND TRADEMARK OFFICE**

**LIMITED RECOGNITION UNDER 37 CFR § 10.9(b)**

Mario Cloutier is hereby given limited recognition under 37 CFR 10.9(b) as an employee of Millenium Pharmaceuticals to prepare and prosecute patent applications wherein Millenium Pharmaceuticals is the assignee of record of the entire interest in the invention claimed in the application. This limited recognition shall expire on the date appearing below, or when whichever of the following events first occurs prior to the date appearing below: (i) Mario Cloutier ceases to lawfully reside in the United States, (ii) Mario Cloutier's employment with Millenium Pharmaceuticals ceases or is terminated, or (iii) Mario Cloutier ceases to remain or reside in the United States on an H-1 visa.

This document constitutes proof of such recognition. The original of this document is on file in the Office of Enrollment and Discipline of the U.S. Patent and Trademark Office.

**Expires: February 15, 2004**

  
\_\_\_\_\_  
Harry I. Moatz  
Director of Enrollment and Discipline

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of: Rosana Kapeller-Libermann, et al  
Continuation Not Yet Assigned Group No.: Not Yet Assigned  
Application No.:  
Filed: January 29, 2004 Examiner: Not Yet Assigned  
For: 2786, A NOVEL HUMAN AMINOPEPTIDASE

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**ASSOCIATE POWER OF ATTORNEY**

Dear Sir:

The undersigned attorney has the power of attorney in the subject application. She hereby grants an associate power to:

Mario Cloutier  
Millennium Pharmaceuticals, Inc.  
40 Landsdowne Street  
Cambridge, MA 02139

---

**CERTIFICATION UNDER 37 C.F.R. SECTIONS 1.8(a) and 1.10\***

I hereby certify that, on the date shown below, this correspondence is being:

**MAILING**

- ☒ deposited with the United States Postal Service in an envelope addressed to the Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.  
**37 C.F.R. SECTION 1.8(a)** **37 C.F.R. SECTION 1.10\***

- ☐ with sufficient postage as first class mail. ☒ as "Express Mail Post Office to Addressee"  
Mailing Label No. EV400464557US

**TRANSMISSION**

- ☐ transmitted by facsimile to the Patent and Trademark Office.

  
Signature

Sean Hunziker

(type or print name of person certifying)

Date: January 29, 2004

**\*WARNING:** Each paper or fee filed by "Express Mail" **must** have the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 C.F.R. section 1.10(b). "Since the filing of correspondence under section 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will **not** be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

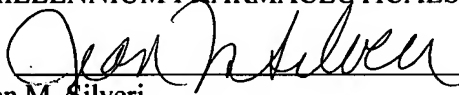
As demonstrated by Appendix A (submitted herewith), Mario Cloutier has passed the Patent Bar Examination and has been granted limited recognition under 37 C.F.R. §10.9(b). Please continue to forward all written and telephonic communications to Jean M. Silveri at the address and telephone number listed below.

Entry of the remarks made herein is respectfully requested.

January 29, 2004

Respectfully submitted,

MILLENNIUM PHARMACEUTICALS, INC.

By   
Jean M. Silveri  
Attorney Agent for Applicant  
Registration No. 39,030  
40 Landsdowne Street  
Cambridge, MA 02139  
Telephone - 617-679-7336  
Facsimile - 617-551-8820



**APPENDIX A**


**BEFORE THE OFFICE OF ENROLLMENT AND DISCIPLINE  
UNITED STATE PATENT AND TRADEMARK OFFICE**

**LIMITED RECOGNITION UNDER 37 CFR § 10.9(b)**

Mario Cloutier is hereby given limited recognition under 37 CFR, 10.9(b) as an employee of Millenium Pharmaceuticals to prepare and prosecute patent applications wherein Millenium Pharmaceuticals is the assignee of record of the entire interest in the invention claimed in the application. This limited recognition shall expire on the date appearing below, or when whichever of the following events first occurs prior to the date appearing below: (i) Mario Cloutier ceases to lawfully reside in the United States, (ii) Mario Cloutier's employment with Millenium Pharmaceuticals ceases or is terminated, or (iii) Mario Cloutier ceases to remain or reside in the United States on an H-1 visa.

This document constitutes proof of such recognition. The original of this document is on file in the Office of Enrollment and Discipline of the U.S. Patent and Trademark Office.

**Expires: February 15, 2004**

  
\_\_\_\_\_  
Harry I. Moatz  
Director of Enrollment and Discipline



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

JUNE 21, 2000

PTAS

Alston & Bird



\*101332967A\*

ALSTON & BIRD LLP  
W. MURRAY SPRUILL  
PO DRAWER 34009  
CHARLOTTE, NC 28234-4009

JUN 30 2000

Received By

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 03/27/2000

REEL/FRAME: 010716/0339  
NUMBER OF PAGES: 10

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

KAPELLER-LIBERMANN, ROSANA

DOC DATE: 02/17/2000

ASSIGNOR:

WHITE, DAVID

DOC DATE: 02/22/2000

ASSIGNOR:

MACBETH, KYLE J.

DOC DATE: 03/01/2000

ASSIGNEE:

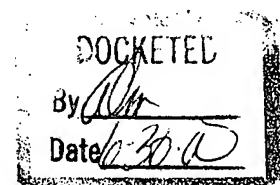
MILLENNIUM PHARMACEUTICALS, INC.  
75 SIDNEY STREET  
CAMBRIDGE, MASSACHUSETTS 02139

SERIAL NUMBER: 09443795

FILING DATE: 11/19/1999

PATENT NUMBER:

ISSUE DATE:



010716/0339 PAGE 2

MARCUS KIRK, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

MRD 3.27.00 ASSIGNMENT RE

04-25-2000

EET Patents Only



To the Honorable Commissioner of Patents  
Please record the attached original document.

101332967

Dkt. No.: 5800-62

RECEIVED  
MAR 27 PM 12:01  
OPR/FINANCE

1. Name of conveying party(ies):

Rosana Kapeller-Libermann  
David White  
Kyle J. MacBeth

Additional name(s) of conveying party(ies) attached? Yes ☐ No ☒

2. Name and address of receiving party(ies):

Millennium Pharmaceuticals, Inc.  
75 Sidney Street  
Cambridge, MA 02139

Additional name(s) & address(es) attached? Yes ☐ No ☒

3. Nature of conveyance:

- ☒ Assignment  
☐ Merger  
☐ Security Agreement  
☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: Kapeller-Libermann: Feb 17, 2000

White: Feb. 22, 2000

MacBeth: March 1, 2000

4. Application No. 09/443,795

Patent No. \_\_\_\_\_

If this document is being filed together with a new application, the execution date of the application  
is: \_\_\_\_\_

Additional numbers attached? Yes ☐ No ☒

5. Name and address of party to whom correspondence concerning document should be mailed:

W. Murray Spruill  
ALSTON & BIRD LLP  
P. O. Drawer 34009  
Charlotte, NC 28234-4009

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41) \$40.00



Enclosed



Authorized to be charged to deposit account

8. Deposit account number: 16-0605

DO NOT USE THIS SPACE

9. Statement and signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of  
the original document.

W. Murray Spruill, Reg. No. 32,943  
Name of Person Signing

Signature

March 20, 2000

Date

4/25/2000 TTON11 00000026 09443795

1 FC:581

40.00 OP

Total number of pages including cover sheet, attachments and document: 10

## ASSIGNMENT

THIS ASSIGNMENT, made by us, Rosana Kapeller-Libermann, a citizen of Brazil; David White, a citizen of the United States of America; and Kyle J. MacBeth, a citizen of the United States of America; respectively;

WITNESSETH: That,

WHEREAS, we are the joint inventors of certain new and useful improvements in "2786, A NOVEL HUMAN AMINOPEPTIDASE ", for which an application for United States Letters Patent was filed November 19, 1999 and assigned U.S. Patent Application No. 09/443,795, and

WHEREAS, Millennium Pharmaceuticals, Inc., a Delaware corporation having a principal place of business at 75 Sidney Street, Cambridge, MA 02139 , County of Middlesex, United States of America, hereinafter referred to as assignee, is desirous of acquiring the entire right, title, and interest in and to said invention as described in said application, and in and to any and all Letters Patent which shall be granted therefor in the United States of America and all foreign countries;

NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we have sold and by these presents do hereby sell, assign, transfer, and convey unto the said assignee, its successors and assigns, the entire right, title, and interest in and to the said invention and application, and in and to any and all continuations, continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America and all foreign countries or reissues thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted, together with the right to claim the priority of said application in all foreign countries in accordance with the International Convention, the same to be held and enjoyed by said assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by me if this assignment and sale had not been made.

We hereby request that said Letters Patent be issued in accordance with this assignment.

We further covenant and agree that, at the time of the execution and delivery of these presents, we possess full title to the invention and application above-mentioned, and that we have the unencumbered right and authority to make this assignment.

We further covenant and agree to bind my heirs, legal representatives, and assigns promptly to communicate to said assignee or its representatives any facts known to me relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the assignee, its representatives, successors, or assigns to secure patent or similar protection for the said invention in all countries and to vest in the assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said assignee, its successors, assigns, and other legal representatives.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 17 day of February, 2000.

Rosana Kapeller-Libermann (SEAL)  
Rosana Kapeller-Libermann

STATE OF Massachusetts )  
COUNTY OF Middlesex )

I, Danielle Jeannette Comeau, a Notary Public for said County and State, do hereby certify that Rosana Kapeller-Libermann personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 17<sup>th</sup> day of February, 2000.



Danielle Jeannette Comeau  
Notary Public

My Commission Expires: October 21, 2005

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this \_\_\_\_\_ day of \_\_\_\_\_, 2000.

\_\_\_\_\_  
David White (SEAL)

STATE OF Massachusetts )  
COUNTY OF Middlesex )

I, Danielle Jeannette Comeau, a Notary Public for said County and State, do hereby certify David White personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the \_\_\_\_\_ day of \_\_\_\_\_, 2000.

(Official Seal)

\_\_\_\_\_  
Notary Public

My Commission Expires: October 21, 2005

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this \_\_\_\_\_ day of \_\_\_\_\_, 2000.

\_\_\_\_\_  
Kyle J. MacBeth (SEAL)

STATE OF Massachusetts )  
COUNTY OF Middlesex )

I, Danielle Jeannette Comeau, a Notary Public for said County and State, do hereby certify that Kyle J. MacBeth personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the \_\_\_\_\_ day of \_\_\_\_\_, 2000.

(Official Seal)

\_\_\_\_\_  
Notary Public

My Commission Expires: October 21, 2005

## ASSIGNMENT

THIS ASSIGNMENT, made by us, Rosana Kapeller-Libermann, a citizen of Brazil; David White, a citizen of the United States of America; and Kyle J. MacBeth, a citizen of the United States of America; respectively;

WITNESSETH: That,

WHEREAS, we are the joint inventors of certain new and useful improvements in "2786, A NOVEL HUMAN AMINOPEPTIDASE ", for which an application for United States Letters Patent was filed November 19, 1999 and assigned U.S. Patent Application No. 09/443,795, and

WHEREAS, Millennium Pharmaceuticals, Inc., a Delaware corporation having a principal place of business at 75 Sidney Street, Cambridge, MA 02139 , County of Middlesex, United States of America, hereinafter referred to as assignee, is desirous of acquiring the entire right, title, and interest in and to said invention as described in said application, and in and to any and all Letters Patent which shall be granted therefor in the United States of America and all foreign countries;

NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we have sold and by these presents do hereby sell, assign, transfer, and convey unto the said assignee, its successors and assigns, the entire right, title, and interest in and to the said invention and application, and in and to any and all continuations, continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America and all foreign countries or reissues thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted, together with the right to claim the priority of said application in all foreign countries in accordance with the International Convention, the same to be held and enjoyed by said assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by me if this assignment and sale had not been made.

We hereby request that said Letters Patent be issued in accordance with this assignment.

We further covenant and agree that, at the time of the execution and delivery of these presents, we possess full title to the invention and application above-mentioned, and that we have the unencumbered right and authority to make this assignment.

We further covenant and agree to bind my heirs, legal representatives, and assigns promptly to communicate to said assignee or its representatives any facts known to me relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the assignee, its representatives, successors, or assigns to secure patent or similar protection for the said invention in all countries and to vest in the assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said assignee, its successors, assigns, and other legal representatives.



IN WITNESS WHEREOF, I have hereunto set my hand and seal on this \_\_\_\_\_ day of \_\_\_\_\_, 2000.

\_\_\_\_\_  
Rosana Kapeller-Libermann (SEAL)

STATE OF Massachusetts )  
COUNTY OF Middlesex )

I, Danielle Jeannette Comeau, a Notary Public for said County and State, do hereby certify that Rosana Kapeller-Libermann personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the \_\_\_\_\_ day of \_\_\_\_\_, 2000.

(Official Seal)

\_\_\_\_\_  
Notary Public

My Commission Expires: October 21, 2005

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 22nd day of February, 2000.

David White (SEAL)  
David White

STATE OF Massachusetts )  
COUNTY OF Middlesex )

I, Danielle Jeannette Comeau, a Notary Public for said County and State, do hereby certify David White personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 22nd day of February, 2000.

(Official Seal)

\_\_\_\_\_  
Notary Public

My Commission Expires: October 21, 2005

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this \_\_\_\_\_ day of \_\_\_\_\_  
\_\_\_\_\_, 2000.

\_\_\_\_\_  
Kyle J. MacBeth (SEAL)

STATE OF Massachusetts )  
COUNTY OF Middlesex )

I, Danielle Jeannette Comeau, a Notary Public for said County and State, do hereby certify that Kyle J. MacBeth personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the \_\_\_\_\_ day of \_\_\_\_\_, 2000.

(Official Seal)

\_\_\_\_\_  
Notary Public

My Commission Expires: October 21, 2005

## ASSIGNMENT

THIS ASSIGNMENT, made by us, Rosana Kapeller-Libermann, a citizen of Brazil; David White, a citizen of the United States of America; and Kyle J. MacBeth, a citizen of the United States of America; respectively;

WITNESSETH: That,

WHEREAS, we are the joint inventors of certain new and useful improvements in "2786, A NOVEL HUMAN AMINOPEPTIDASE ", for which an application for United States Letters Patent was filed November 19, 1999 and assigned U.S. Patent Application No. 09/443,795, and

WHEREAS, Millennium Pharmaceuticals, Inc., a Delaware corporation having a principal place of business at 75 Sidney Street, Cambridge, MA 02139 , County of Middlesex, United States of America, hereinafter referred to as assignee, is desirous of acquiring the entire right, title, and interest in and to said invention as described in said application, and in and to any and all Letters Patent which shall be granted therefor in the United States of America and all foreign countries;

NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we have sold and by these presents do hereby sell, assign, transfer, and convey unto the said assignee, its successors and assigns, the entire right, title, and interest in and to the said invention and application, and in and to any and all continuations, continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America and all foreign countries or reissues thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted, together with the right to claim the priority of said application in all foreign countries in accordance with the International Convention, the same to be held and enjoyed by said assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by me if this assignment and sale had not been made.

We hereby request that said Letters Patent be issued in accordance with this assignment.

We further covenant and agree that, at the time of the execution and delivery of these presents, we possess full title to the invention and application above-mentioned, and that we have the unencumbered right and authority to make this assignment.

We further covenant and agree to bind my heirs, legal representatives, and assigns promptly to communicate to said assignee or its representatives any facts known to me relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the assignee, its representatives, successors, or assigns to secure patent or similar protection for the said invention in all countries and to vest in the assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said assignee, its successors, assigns, and other legal representatives.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this \_\_\_\_\_ day of \_\_\_\_\_, 2000.

\_\_\_\_\_  
Rosana Kapeller-Libermann (SEAL)

STATE OF Massachusetts )  
 )  
COUNTY OF Middlesex )

I, Danielle Jeannette Comeau, a Notary Public for said County and State, do hereby certify that Rosana Kapeller-Libermann personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the \_\_\_\_\_ day of \_\_\_\_\_, 2000.

(Official Seal)

\_\_\_\_\_  
Notary Public

My Commission Expires: October 21, 2005

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this \_\_\_\_\_ day of \_\_\_\_\_, 2000.

\_\_\_\_\_  
David White (SEAL)

STATE OF Massachusetts )  
 )  
COUNTY OF Middlesex )

I, Danielle Jeannette Comeau, a Notary Public for said County and State, do hereby certify David White personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the \_\_\_\_\_ day of \_\_\_\_\_, 2000.

(Official Seal)

\_\_\_\_\_  
Notary Public

My Commission Expires: October 21, 2005

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 1<sup>st</sup> day of March, 2000.

Kyle J. MacBeth (SEAL)  
Kyle J. MacBeth

STATE OF Massachusetts)  
COUNTY OF Middlesex)

I, Danielle Jeannette Comeau, a Notary Public for said County and State, do hereby certify that Kyle J. MacBeth personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 1<sup>st</sup> day of March, 2000.

(Official Seal)

Danielle Jeannette Comeau  
Notary Public

My Commission Expires: October 21, 2005